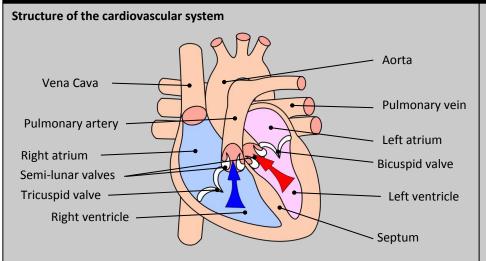
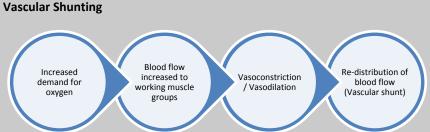
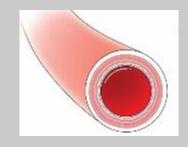
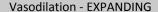
GCSE Physical Education – The structure and functions of the cardiovascular system





Vasoconstriction – NARROWING







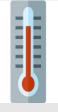
Function of the cardiovascular system

Deoxygenated blood = BLUE (Right side)

- Transport of oxygen, carbon dioxide and nutrients
- · Clotting of open wounds

Oxygenated = RED (Left side)

• Regulation of body temperature



Cardiac Output (Q) = Heart Rate x Stroke Volume (I/min) (bpm) (mL per beat)

Blood vessels

Arteries	Veins	Capillaries
1. Away from the heart 2. Oxygenated blood (except pulmonary artery) 3. Thick/elastic walls 4. High pressure 5. Small lumen	1. Back to the heart 2. Deoxygenated blood (except pulmonary vein) 3. Thin walls + larger lumen 4. Lower pressure 5. Valves	 In the tissue Site of gaseous exchange Very thin walls

Components of blood - Red blood cells

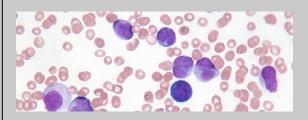
Carry oxygen from the lungs to the working muscles + Removes CO2.

Haemoglobin binds the oxygen



White blood cells

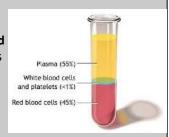
Are part of the immune system and **fight disease** and infection.



Platelets & Plasma

Platelets **clot blood** and form a scab around the site of injury.

Plasma is the **liquid/fluid** part of blood that allows it to flow.



Term	Definition/notes/concept	
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